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1 Special issue: AI in engineering
D. Sriram, R. Joobbani
April 1985   **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: 📄 pdf(8.79 MB)   Additional Information: full citation, abstract

> The papers in this special issue were compiled from responses to the announcement in the July
> notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty |
> About half the papers were received over the computer network.

2 Special section on data mining for intrusion detection and threat analysis: ADAM: a testbe
intrusion detection
Daniel Barbará, Julia Couto, Sushil Jajodia, Ningning Wu
December 2001 **ACM SIGMOD Record**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(896.53 KB)   Additional Information: full citation, abstract, references, in

> Intrusion detection systems have traditionally been based on the characterization of an attack a
> system to see if it matches that characterization. Recently, new intrusion detection systems bas
> appearance in the field. This paper describes the design and experiences with the ADAM (Audit
> use as a testbed to study how useful data mining techniques can be in intrusion detection.
>
> **Keywords:** cyber attacks, data mining, intrusion detection software, pattern analysis

3 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, in

> Understanding distributed applications is a tedious and difficult task. Visualizations based on pr
> obtain a better understanding of the execution of the application. The visualization tool we use
> University of Waterloo. However, these diagrams are often very complex and do not provide the
> application. In our experience, such tools display repeated occurrences of non-trivial commun ..

4
GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, A;
August 2004   **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '0**
Publisher: ACM Press
Full text available: pdf(63.03 MB)   Additional Information: full citation, abstract

> The graphics processor (GPU) on today's commodity video cards has evolved into an extremely
> graphics architectures provide tremendous memory bandwidth and computational horsepower,
> processing units that support vector operations up to full IEEE floating point precision. High lev‹
> hardware, making this computational power accessible. Architecturally, GPUs are highly parallel

5 Seeing, hearing, and touching: putting it all together
Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.64 MB)   Additional Information: full citation

6 A generic platform for addressing the multimodal challenge
Laurence Nigay, Joëlle Coutaz   .
May 1995   **Proceedings of the SIGCHI conference on Human factors in computing system:**
Publisher: ACM Press/Addison-Wesley Publishing Co.
Full text available: html(37.86 KB)   Additional Information: full citation, references, citings, index terms

7 IMCE: Integrated media creation environment
Brett Adams, Svetha Venkatesh, Ramesh Jain
August 2005   **ACM Transactions on Multimedia Computing, Communications, and Applic;**
Publisher: ACM Press
Full text available: pdf(16.79 MB)   Additional Information: full citation, abstract, references, in‹

> We discuss the design goals for an integrated media creation environment (IMCE) aimed at ena
> artifacts with professional qualities. The resulting requirements are implemented and we demor
> with the generation of two simple home movies. The significance for the average user seeking t
> automatic application of film principles to the task, removal of tedious low-level editing ...
>
> **Keywords**: Home movie, computational media aesthetics, semantics, video collection

8 Illustrative risks to the public in the use of computer systems and related technology
Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(2.54 MB)   Additional Information: full citation

9 Theory of keyblock-based image retrieval
April 2002   **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: pdf(2.14 MB)   Additional Information: full citation, abstract, references, cit

> The success of text-based retrieval motivates us to investigate analogous techniques which can
> image data. However, images differ significantly from text both syntactically and semantically ii
> information. Thus, the generalization of information retrieval from the text domain to the image

framework for information retrieval in the image domain which supports content-based q ...

Keywords: clustering, codebook, content-based image retrieval, keyblock

10 A survey of rollback-recovery protocols in message-passing systems
E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson
September 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 3
Publisher: ACM Press
Full text available: pdf(549.68 KB)   Additional Information: full citation, abstract, references, cit

This survey covers rollback-recovery techniques that do not require special language constructs
rollback-recovery protocols into *checkpoint-based* and *log-based. Checkpoint-based* protocols r
restoration. Checkpointing can be coordinated, uncoordinated, or communication-induced. *Log*
logging of nondeterministic events, encoded in tuples call ...

Keywords: message logging, rollback-recovery

11 xlinkit: a consistency checking and smart link generation service
Christian Nentwich, Licia Capra, Wolfgang Emmerich, Anthony Finkelstein
May 2002   **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(463.26 KB)   Additional Information: full citation, abstract, references, cit

xlinkit is a lightweight application service that provides rule-based link generation and checks tl
leverages standard Internet technologies, notably XML, XPath, and XLink. xlinkit can be used as
or in applications that require smart link generation, including portal construction and managen
article we show how consistency constraints can be expressed and checked. We des ...

Keywords: Consistency management, XML, automatic link generation, constraint checking

12 Intrusion detection systems and multisensor data fusion
Tim Bass
April 2000 **Communications of the ACM**, Volume 43 Issue 4
Publisher: ACM Press
Full text available: pdf(99.81 KB)
html(34.77 KB)   Additional Information: full citation, references, citings, index terms

13 Techniques and tools for analyzing intrusion alerts
Peng Ning, Yun Cui, Douglas S. Reeves, Dingbang Xu
May 2004   **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Is
Publisher: ACM Press
Full text available: pdf(1.55 MB)   Additional Information: full citation, abstract, references, inc

Traditional intrusion detection systems (IDSs) focus on low-level attacks or anomalies, and rais
logical connections between them. In situations where there are intensive attacks, not only will
the amount of alerts will also become unmanageable. As a result, it is difficult for human users
the alerts and take appropriate actions. This paper presents a sequence of t ...

Keywords: Intrusion detection, alert correlation, security management

14 Clustering intrusion detection alarms to support root cause analysis

Klaus Julisch

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Is

Publisher: ACM Press

Full text available: pdf(285.72 KB)   Additional Information: full citation, abstract, references, cit

    It is a well-known problem that intrusion detection systems overload their human operators by paper presents a new approach for handling intrusion detection alarms more efficiently. Central alarm occurs for a reason, which is referred to as the alarm's *root causes*. This paper observes causes generally account for over 90% of the alarms that an intrusion ...

    Keywords: Intrusion detection, cluster analysis, data mining, false positives, root cause analys

15 A framework for constructing features and models for intrusion detection systems

Wenke Lee, Salvatore J. Stolfo

November 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Is

Publisher: ACM Press

Full text available: pdf(187.03 KB)   Additional Information: full citation, abstract, references, cit

    Intrusion detection (ID) is an important component of infrastructure protection mechanisms. In accurate, adaptive, and extensible. Given these requirements and the complexities of today's n systematic and automated IDS development process rather that the pure knowledge encoding ɑ describes a novel framework, MADAM ID, for Mining Audit Data for Automated Models for Instru

    Keywords: data mining, feature construction, intrusion detection

16 Intrusion detection: Enhancing byte-level network intrusion detection signatures with conte

Robin Sommer, Vern Paxson

October 2003   **Proceedings of the 10th ACM conference on Computer and communication**

Publisher: ACM Press

Full text available: pdf(217.88 KB)   Additional Information: full citation, abstract, references, cit

    Many network intrusion detection systems (NIDS) use byte sequences as signatures to detect n efficient, they tend to suffer from a high false-positive rate. We develop the concept of *contextu* based signature-matching. Rather than matching fixed strings in isolation, we augment the mat designing an efficient signature engine for the NIDS bro, we provide low-level context ...

    Keywords: bro, evaluation, network intrusion detection, pattern matching, security, signature

17 Path sharing and predicate evaluation for high-performance XML filtering

Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer

December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(543.40 KB)   Additional Information: full citation, abstract, references, cit

    XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large nu constraints on both structure and content. It is now well accepted that approaches using event- (FSMs) can provide the basis for highly scalable structure-oriented XML filtering systems. The X was the first published FSM-based XML filtering approach. XFilter used a separate FSM per pa ..

    Keywords: Nondeterministic Finite Automaton, XML filtering, content-based matching, nested evaluation, structure matching

18 A structured approach for the definition of the semantics of active databases

Piero Fraternali, Letizia Tanca

December 1995 **ACM Transactions on Database Systems (TODS)**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(4.15 MB)   Additional Information: full citation, abstract, references, cit

Active DBMSs couple database technology with rule-based programming to achieve the capabili external) stimuli, called events. The reactive capabilities of active databases are useful for a wic security, view materialization, integrity checking and enforcement, or heterogeneous database very promising for the near future. An active database system consists of ...

Keywords: active database systems, database rule processing, events, fixpoint semantics, rule

19 Data integrity: Web application security assessment by fault injection and behavior monito

Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai

May 2003   **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(4.53 MB)   Additional Information: full citation, abstract, references, cit

As a large and complex application platform, the World Wide Web is capable of delivering a bro; However, many Web applications go through rapid development phases with extremely short tu eliminate vulnerabilities. Here we analyze the design of Web application security assessment m practices that render Web applications vulnerable to attacks such as SQL injection and cross-sit

Keywords: black-box testing, complete crawling, fault injection, security assessment, web app

20 Data mining to detect abnormal behavior in aerospace data

José M. Peña, Fazel Famili, Sylvain Létourneau

August 2000   **Proceedings of the sixth ACM SIGKDD international conference on Knowled**

Publisher: ACM Press

Full text available: pdf(179.60 KB)   Additional Information: full citation, references, index terms

Keywords: data partitioning, machine learning, trend monitoring

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L2	0	726/222	USPAT	OR	OFF	2006/04/03 18:24
L3	13	726/22	USPAT	OR	OFF	2006/04/03 18:24
L4	16	726/23	USPAT	OR	OFF	2006/04/03 18:24
L5	7128	713/200 OR 713/202 OR 713/201 OR 713/188	USPAT	OR	OFF	2006/04/03 18:27
L6	7130	5 OR 4 OR 3 OR 2 OR 1	USPAT	OR	OFF	2006/04/03 18:27
L7	0	intrusion.clm. and event.clm. and parameter.clm. and database.clm. and rule$1.clm. and compar$4. clm. and execut$3.clm. and priorit$3.clm. and enviornment. clm. and raw.clm. and fusion.clm. and engine.clm.	US-PGPUB; USPAT	OR	OFF	2006/04/03 18:30
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